

[Translation]
AMENDMENT
(Amendment under PCT article 19)

What is claimed is:

- [1] A cutting device comprising:
 - a strip shaped metallic thin blade;
 - a power supply that passes an electric current through the thin blade to cause the thin blade to heat; and
 - a drive part that causes the thin blade to move in a thickness direction of a member to be cut.
- [2] The cutting device of claim 1, further comprising
 - a non-contact thermometer that measures the temperature of the thin blade without contacting the thin blade, and
 - a controller that controls the electric current passing through the thin blade on the basis of a temperature detection signal from the non-contact thermometer.
- [3] The cutting device of claim 1 or 2, wherein the surface of the thin blade is coated with a low-friction material whose frictional resistance is less than that of the metal configuring the thin blade.
- [4] The cutting device of any one of claims 1 to 3, further comprising a tension applying part that applies tension to the thin blade.

[5] The cutting device of any one of claims 1 to 4, further comprising a cutting condition changing part that enables a cutting angle and a diagonal angle to be changed wherein, the cutting angle is an angle formed between a line indicating the moving direction of the thin blade and a line orthogonal to the thickness direction of the member to be cut; and the diagonal angle is an inclination angle of the thin blade with respect to a direction orthogonal to a longitudinal direction of the member to be cut.

[6] The cutting device of any one of claims 1 to 5, wherein the thin blade is longer than the width of the member to be cut.

[7] (Amended) A method of cutting a member to be cut with a metallic strip shaped thin blade that has been heated, the method comprising:
passing an electric current through a thin blade that is longer than the width of the member to be cut to cause the thin blade to heat; and
moving the thin blade moves when cutting the member, with a blade edge longitudinal direction that is slanted θ_b degrees with respect to a width direction orthogonal to a longitudinal direction of the member, and with the thin blade slanted at θ_a degrees with respect to a direction orthogonal to a thickness direction of the member.